CALIFORNIA AIR RESOURCES BOARD	FPT INDUSTRIAL S.p.A.	EXECUTIVE ORDER U-R-015-0421 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2020	LFPXL06.7FR1	6.7	Diesel	8,000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Engine Control Module, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Selective Catalytic Reduction – Urea/Periodic Trap Oxidizer, Ammonia Oxidation Catalyst	Tractor, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW ≤ 560	Tier 4 Final	OPTIONAL STD	0.19	0.40	-	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	0.24	-	0.4	0.004	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression-Ignition Engines, Parts I-D" adopted October 20, 2005 and last amended October 25, 2012.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 30TH day of October 2019.

Allen Lyons, Chief
Emissions Certification and Compliance Division

Engine Model Summary Template

EO#: U-R-015-0421
Attachment: 1 of 1
Date:5/29/20

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)		5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
LFPXL06.7FR1	F4HGE613E*V	F4HGE613E*V	245@ 2000	122		N/A	963 @ 1300	183	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413C*V	F4DGE413C*V	141 @ 2200	104		N/A	467 @ 1300	132	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413D*V	F4DGE413D*V	131 @ 2200	97		N/A	452 @ 1300	128	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413E*V	F4DGE413E*V	122 @ 2200	90		N/A	408 @ 1300	115	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413F*V	F4DGE413F*V	111 @ 2200	84		N/A	385 @ 1300	109	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413P*V	F4DGE413P*V	138 @ 2200	103		N/A	467 @ 1300	132	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413R*V	F4DGE413R*V	129 @ 2200	95		N/A	452 @ 1300	128	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413S*V	F4DGE413S*V	118 @ 2200	89		N/A	408 @ 1300	115	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE413T*V	F4DGE413T*V	109 @ 2200	83		N/A	385 @ 1300	109	N/A	DDI ECM TC CAC DOC SCR+DFF AMOX
LFPXL06.7FR1	F4DGE617D*V	F4DGE617D*V	296 @ 2100	143		N/A	950 @1400	178	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE617E*V	F4DGE617E*V	267 @ 2100	130		N/A	844 @ 1400	170	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE617K*V	F4DGE617K*V	247 @ 2100	121		N/A	869 @ 1400	162	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE613C*V	F4DGE613C*V	256 @ 2200	120		N/A	859 @ 1500	160	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE613Y*V	F4DGE613Y*V	248 @ 2200	119		N/A	816 @ 1500	148	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE613U*V	F4DGE613U*V	233 @ 2300	112		N/A	769 @ 1500	142	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE613D*V	F4DGE613D*V	213 @ 2300	100		N/A	698 @ 1500	130	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE613T*V	F4DGE613T*V	193 @ 2200	92		N/A	660 @ 1500	121	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4HGE613T*V	F4HGE613T*V	193 @ 2200	92		N/A	660 @ 1500	121	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4DGE613V*V	F4DGE613V*V	173 @ 2200	84		N/A	594 @ 1500	112	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4HGE614L*V	F4HGE614L*V	190 @ 2100	95	New	N/A	630 @ 1400	95	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4HGE614M*V	F4HGE614M*V	154 @ 2100	80	New	N/A	537 @ 1500	80	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
LFPXL06.7FR1	F4HGE613R*V	F4HGE613R*V	180 @ 2200	86	New	N/A	547 @ 1500	86	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX